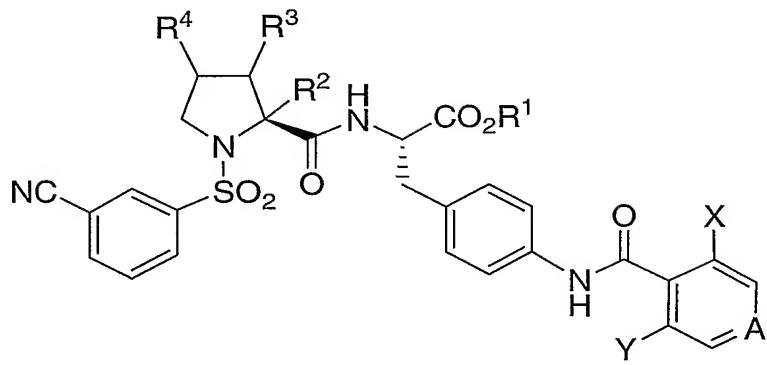


WHAT IS CLAIMED IS:

1. A compound of formula I:



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or a pharmaceutically acceptable salt thereof, wherein:

A is N or N⁺-O⁻;X and Y are independently selected from halogen, C₁-3alkyl, and C₁-3alkoxy;

10 R¹ is selected from (1) hydrogen, (2) C₁-10alkyl, (3) -(C₁-10alkyl)-aryl, (4) -(C₁-10alkyl)-O-C₁-10alkyl, (5) -(C₁-10alkyl)-OC(O)-C₁-10alkyl, (6) -(C₁-10alkyl)-OC(O)-aryl, (7) -(C₁-10alkyl)-OC(O)O-C₁-10alkyl and (8) -(C₁-10alkyl)N⁺(C₁-3alkyl)3; wherein alkyl is optionally substituted with one to three substituents independently selected from R^a, and aryl is optionally substituted with one to three substituents independently selected from R^b;

15 R² is hydrogen or methyl;

R³ and R⁴ are independently selected from (1) hydrogen, (2) -NR^dRE, (3) -NR^dS(O)_mRE, (4) -NR^dC(O)RE, (5) -NR^dC(O)ORE, and (6) -NR^dC(O)NR^dRE, with the proviso that R³ and R⁴ are not both hydrogen;

20 R^a is selected from (1) -OR^d, (2) -NR^dS(O)_mRE, (3) -NO₂, (4) halogen, (5) -S(O)_mR^d, (6) -SR^d, (7) -S(O)₂OR^d, (8) -S(O)_mNR^dRE, (9) -NR^dRE, (10) -O(CRF_nR_g)_nNR^dRE, (11) -C(O)R^d, (12) -CO₂R^d, (13) -CO₂(CRF_nR_g)_nCONR^dRE, (14) -OC(O)R^d, (15) -CN, (16) -C(O)NR^dRE, (17) -NR^dC(O)RE, (18) -OC(O)NR^dRE, (19) -NR^dC(O)ORE, (20) -NR^dC(O)NR^dRE, (21) -CR^d(N-ORE), (22) CF₃, (23) -OCF₃, (24) C₃-8cycloalkyl, and (25) heterocyclyl; wherein cycloalkyl and heterocyclyl are optionally substituted with one to three groups independently selected from R^c;

25 R^b is selected from (1) a group selected from R^a, (2) C₁-10 alkyl, (3) C₂-10 alkenyl (4) C₂-10 alkynyl, (5) aryl, and (6) -(C₁-10alkyl)-aryl, wherein alkyl, alkenyl, alkynyl, and aryl are optionally substituted with one to three substituents selected from a group independently selected from R^c;

R^c is (1) halogen, (2) amino, (3) carboxy, (4) C_{1-4} alkyl, (5) C_{1-4} alkoxy, (6) aryl, (7) $-(C_{1-4}$ alkyl)-aryl, (8) hydroxy, (9) CF_3 , (10) $OC(O)C_{1-4}$ alkyl, (11) $OC(O)NR^dR^e$, or (12) aryloxy;
 R^d and R^e are independently selected from hydrogen, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10} alkynyl, Cy and $-(C_{1-10}$ alkyl)-Cy, wherein alkyl, alkenyl, alkynyl and Cy are optionally substituted with one to four
5 substituents independently selected from R^c ; or
 R^d and R^e together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from O, S and N- R^h , and wherein said heterocyclic ring is optionally fused with a C_{3-8} carbocyclic ring or is optional substituted with 1 to 4 groups independently selected from C_{1-10} alkyl;
10 R^f and R^g are independently selected from hydrogen, C_{1-10} alkyl, Cy and $-(C_{1-10}$ alkyl)-Cy; or
 R^f and R^g together with the carbon to which they are attached form a ring of 5 to 7 members containing 0-2 heteroatoms independently selected from oxygen, sulfur and nitrogen;
 R^h is selected from R^f and $-C(O)R^f$;
Cy is selected from cycloalkyl, heterocyclyl, aryl, and heteroaryl; and
15 m is 1 or 2.

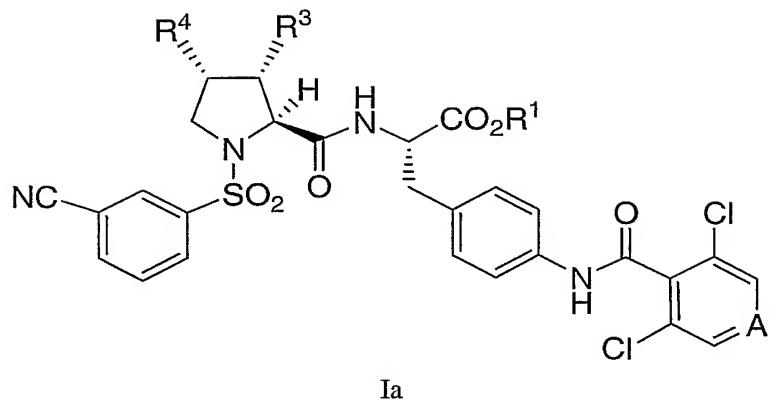
2. A compound of Claim 1 wherein one of X and Y is halogen and the other is selected from halogen, C_{1-3} alkyl and C_{1-3} alkoxy.

20 3. A compound of Claim 1 wherein R^1 is hydrogen, C_{1-4} alkyl, $-(C_{1-4}$ alkyl) $OC(O)-C_{1-4}$ alkyl, or $-(C_{1-4}$ alkyl) $OC(O)-C_{1-4}$ alkyl.

4. A compound of Claim 1 wherein R^3 is hydrogen, and R^4 is NR^dR^e .

25 5. A compound of Claim 1 wherein R^3 is NR^dR^e and R^4 is hydrogen.

6. A compound of Claim 1 having the formula Ia:



or a pharmaceutically acceptable salt thereof, wherein

A is N or N^+O^- ;

5 R¹ is selected from hydrogen, C₁-10alkyl, -(C₁-4alkyl)-aryl, -(C₁-4alkyl)-O-C₁-4alkyl, and -(C₁-4alkyl)-OC(O)-C₁-4alkyl;
 one of R³ and R⁴ is NR^dRe and the other is hydrogen.

7. A compound of Claim 6 wherein R^d is hydrogen and R^e is t-butyl or cyclobutyl.

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8. A compound of Claim 6 wherein R^3 is hydrogen, and R^d and R^e together with the atoms to which they are attached form a heterocyclic ring of 4 to 7 members containing no heteroatom and optionally substituted with 1 or 2 groups independently selected from

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9. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

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10. Use of a compound of Claim 1 or a pharmaceutically acceptable salt thereof for the manufacture of a medicament for the treatment or prevention of diseases mediated by cell adhesion.

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11. The use of Claim 9 wherein said disease is selected from asthma, multiple sclerosis, inflammatory bowel disease, chronic obstructive pulmonary disease, sickle cell anemia, leukemia, and rheumatoid arthritis.

12. The use of Claim 9 wherein said disease is heaves in horses.